

EXHIBIT W

TVT (clear and blue)

confidential

Risk assessment TVT blue

No changes have been made to the product and its intended use, apart from the colour. The biocompatibility of this new variations has been evaluated (section 9) and it has been concluded that the product will have the same safety level as the existing product.

Also the clinical evaluation revealed no new risks (section 11)

The design validation shows that the new variation delivers the intended visibility.

As no new risks have been identified the original risk assessment for TVT clear is also valid for TVT blue.

 129.05.02

08.05.01

Anhang 4-02/3: Bewertung der Gefahrenarten (Risikoaanalyse nach EN 1441)

Product: TVT

Projekt:

Design Review:

X

Prozess FMEA:

Prozessschritt:

Hazard	Source	Exposition potential consequence	Failure Mode	Probability of occurrence	Risk Class	Applicable safety measure	Other hazards generated?	Risk Class	Assessment of remaining risk
1) Bioburden	Manufacturer	Longterm/ Serious	Failure	Rare	5	Manufacturing under GMP- conditions. Control of bioburden	No	1	negligible
2) Non-decomposable residues	Manufacturer	Longterm/ Serious	Failure	Rare	5	Washing of needle, Biocompatibility-testing	No	1	negligible
3) Pyrogenicity	See 1								
4) Wrong composition of material	See 19g and h								
5) Systemic Toxicity	Manufacturer	Longterm / Serious	Failure	Rare	5	Biocompatibility-testing	No	1	negligible
6) Genotoxicity /Teratogenicity	See 5								
7) Allergical Effects	See 5								
8) Cytotoxicity	See 5								
9) Other bio- incompatibilities	n.a.								
10) Non-obedience of hygiene	User	Long / Serious	Failure	occasional	6	No special measures, as risk is not product specific			
11) (Cross-)Infection	n.a.								
12) Incompatibility with other devices or products	Use of former introducer version	Short / marginal	Failure	Frequent	1	Old version was retrieved from the customer. Customer information	No	0	acceptable
13) Lack of qualitative properties									
Treatment is not successful	Not known	Long/ critical	Standard use	Probable	6	Patient-consent, less invasive than standard procedures	No	3	Risk accepted by patient
a) functional and qualitative properties									

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a.a) no sufficient friction to maintain position even under stress without fixation	Manufacturer (wrong product / process)	Long / critical	Failure	Probable	5	Inspections at manufacturing and release of material / product	No	0	acceptable
13.a.b) Complication rate higher than standard procedures	User (user does not remove the sheath) See 28 clinical risks	Long / Critical	Failure	Probable	5	Package insert and training of users	No	0	acceptable
13.a.c) Procedure cannot be performed under local or regional anesthesia (no cough-test possible)	Surgeon / patient	Long / Critical	Standard use	Rare	4	Cough-test required in package insert	No	1	negligible
13.a.d) No shorter recovery time	Conversion to open surgery	Long / critical	Standard use	Frequent	6	Patient-consent	No	3	Risk accepted by patient
13.a.e) Open surgery required	See 13.a.d)								
13.a.f) Operating time higher than for standard procedure	Surgeon	Short / marginal	Standard use	Rare	0			0	acceptable
13.a.g) Needle curvature is not as required	Manufacturer	Short / serious	Failure	Occasional	6	Inspections at manufacturing and release of material / product	No	0	Acceptable
13.a.h) Needle tip is not as required (too sharp)	Manufacturer	Short / serious	Failure	Rare	5	Radius is specified, qualitative inspection at receiving	No	0	Acceptable
Needle tip is not as required (not as sharp as required)	Manufacturer	Short / serious	Failure	Rare	5	Radius is specified, qualitative inspection at receiving	No	0	Acceptable
13.a.i) Needle diameter is not as required	Not imaginable								
13.a.j) Needle end causes additional trauma	Not imaginable								
13.a.k) Needle too short	Manufacturer	Short / marginal	Failure	Remote	0		No	0	Acceptable

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13 a) Needle does not allow the attachment of the introducer	Manufacturer / User	Short / moderate	Failure	Rare	1	No	1	Acceptable
13 a.m) Sheath does not glide easily	Not imaginable							
13 b) Treatment (not cuttable)	Not imaginable							
13 c) Mesh will be fixated	Surgeon	No hazard						
13 d) Mix-up (cannot be distinguished from other products)	Not imaginable							
13 e) Not manageable with gloves	Not imaginable							
13 f) Not manageable with instruments	Not imaginable							
14) Human error/Reuse of disposable product	Not imaginable							
15) Insufficient warning of adverse reactions (only product related)	See 28 Clinical risks							
16) Loss of mechanical integrity	See 19 a and g							
17) Erroneous mechanical damage	Surgeon	No hazards						
18) Contamination as a result of waste –product and/ or waste of equipment	No special product related hazard							
19) Lack of quantitative properties								
a) Mechanical Properties								
a.a) needle								
a.a.a) Needle strength (needle breakage)	Manufacturer	Short / marginal	Failure	Frequent	1	No	1	Negligible
a.a.b) Needle bending (elastic deformation)	No hazard							

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a.a.b) Needle bending (plastic deformation)	Surgeon	Short / marginal	Failure	Probable	0		No	0	Acceptable
a.a.c) Internal thread strength	Manufacturer	Short / marginal	Failure	Probable	0		No	0	Acceptable
a.a.d) Penetration resistance at urogenital diaphragma is too high	See 13 a.h								
a.b.) Mesh									
a.b.a) tensile strength	Manufacturer	Short / marginal	Failure	Probable	0		No	0	Acceptable
a.b.b) elongation	Manufacturer	Long / critical	Failure	Occasional	4		No	0	Acceptable
a.b.c) bending stiffness	Manufacturer	Long / critical	Failure	Occasional	4		No	0	Acceptable
a.b.d) pore size	Manufacturer	Long / critical	Failure	Occasional	4		No	0	Acceptable
a.c) assembly									
a.c.a) push-off force	Manufacturer	Short / moderate	Failure	Frequent	3		No	0	Acceptable
b) Dimensions									
b.a) needle									
b.a.a) (below min. diameter at shoulder)	Manufacturer	Short / critical	Failure	Remote	2		No	0	Acceptable
b.b) mesh									
b.b.a) too short	Manufacturer	Short / moderate	Failure	Remote	2		No	0	Acceptable
b.b.b) too small	Manufacturer	Long / critical	Failure	Rare	3		No	0	Acceptable
b.c) sheath (too short)	Manufacturer	Short / marginal	Failure	Probable	0		No	0	Acceptable
b.d) shrink tube	See 19.a.c.a								
c) colour / appearance									
c.a) needle	Not imaginable								
c.b) mesh	Not imaginable								
c.c) sheath	See 19.a.c.a								
c.d) shrink tube	Not imaginable								
d) tightness	n.a.								
e) strength of mesh (vivo / vitro)	Not imaginable								
f) absorption	n.a.								
g) Composition									
g.a) needle	See 19.a.a.a								

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RiskTVI

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g.a (needle breakage)	See 19.a.a.a	short / serious	Failure	Incredible	2	Inspection at receiving (Identity)	No	0	Acceptable
g.a.b (biocompatibility)	Manufacturer								
g.b) mesh	Not imaginable								
g.c) sheath	See 19.b.c								
g.d) shrink tube	See 19.a.c.a								
h.) construction									
h.a) mesh	See 13.a.a								
h.b) attachment	See 19.a.c.a								
h.c) transition	See 19.a.c.a								
20) Missing adequate determination when the usability of the product expires	Not imaginable								
21) Insufficient Packaging	Manufacturer	Long / serious	Failure Mode						
a) Contamination of the product or user									
b) Decline of equipment/device condition									
22) Discharge of liquids	Not applicable								
23) Magnetic Fields	Not applicable								
24) Electrocauter									
25) Moisture									
Storage/Transport									
26) Air pressure									
Storage/Transport									
27) Temperature									
Storage/Transport									
28) Clinical Risks									
a) Intraoperative bladder perforation	User	Long / critical	Failure Mode	Probable	5	-Info in IFU (Diagnostic Cystoscopy) and Training of User	No	0	acceptable

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b) Intraoperative blood loss exceeding 300 ml blood coagulation disorder or injury of minor vessels)	User	long / moderate	Failure Mode	Rare	4	Patient monitoring is standard	No	0	acceptable
c) Overtensioning of tape	User	Long / critical	Failure Mode	Probable	5	-Info in IFU -Training	No	0	Acceptable
d) Level of wound infection and urinary tract infection higher than for other incontinence procedures	Not imaginable								
e) Injury of major vessels	User	Short / serious	Failure Mode	Frequent	7	-Info in IFU -Training -Restricted marketing (only to customers, equipped to be able to treat the injury) - During the training it must be emphasized that the procedure should only be performed if a quick access to an intensive care unit is available	No	1	negligible
f) Injury of nerves	User	long / serious.	Failure Mode	Occasional	6	-Info in IFU -Training	No	1	negligible
g) Injury of bowel	User	Short / serious	Failure Mode	Occasional	6	-Info in IFU -Training	No	1	Negligible
h) Injury of urethra	User	Short / critical	Failure Mode	Frequent	3	- Info in IFU - Training	No	0	Acceptable
i) Bladder perforation	User	Short / critical	Failure Mode	Frequent	3	- Info in IFU - Training	No	0	Acceptable
j) Prolonged urinary retention	See 28c								
k) De novo detrusor instability	User	Long / critical	Failure Mode	Occasional	4	- Info in IFU - Training	No	0	Acceptable
l) Postoperative erosion of urethra	User	Long / critical	Failure Mode	Occasional	4	- Info in IFU - Training	No	0	Acceptable

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m) Postoperative erosion of bladder	Standard procedure	Long / critical	Standard-use	Incredible	2	No	2	Acceptable as clinically not observed
n) Postoperative erosion of vagina	Delayed healing caused by: Patient or surgeon	Long / moderate	Failure Mode	Occasional	4	No	0	Acceptable as it is equivalent to standard procedures and not product specific
o) Haematoma which needs treatment (removal)	Procedure related	Long / critical	Standard use	Incredible	2	No	2	General risk for invasive procedures. Risk accepted by patient
p) Haematoma which needs treatment (removal)	Surgeon	Long / critical	Failure Mode	Improbable	3	No	3	General risk for invasive procedures. Risk accepted by patient
29) Others								

Is safety of product adequate ? Yes ☒ No ☐ Further measures:
 Carried out by: T. Hojfer Date: 08.05.01 Reviewed by: [Signature] Reg. Aff.

Scientific Director

Medical Affairs

Marketing Manager

Proj. L. Scient. Aff.

C. W. C. K. L. / 14.05.01

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m) Postoperative erosion of bladder	Standard procedure	Long / critical	Standard-use	Incredible	2	No	2	Acceptable as clinically not observed
n) Postoperative erosion of vagina	Delayed healing caused by: Patient or surgeon	Long / moderate	Failure Mode	Occasional	4	No	0	Acceptable as it is equivalent to standard procedures and not product specific
o) Haematoma which needs treatment (removal)	Procedure related	Long / critical	Standard use	Incredible	2	No	2	General risk for invasive procedures. Risk accepted by patient
p) Haematoma which needs treatment (removal)	Surgeon	Long / critical	Failure Mode	Improbable	3	No	3	General risk for invasive procedures. Risk accepted by patient
29) Others								

Is safety of product adequate? Yes ☒ No ☐ Further measures:Carried out by: T. HoffDate: 08.05.01Reviewed by: [Signature]

Reg. Aff.

Scientific Director

Medical Affairs

Marketing Manager

Proj. L. Scient. Aff.

[Signature] 31/05/01C. W. [Signature] 14.05.01

RiskTVT

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ETHICON SARL

QA Memo

To: . Technical File
From: Agnès SIFFERLEN
CC:
Date: July 26, 2000
Subject: RISK ANALYSIS
Re: QAMemo1700

The original risk analysis for TVT implant and introducer written by Medscan is still valid (see risk analysis rev 7 dated February 6, 2000).

An additional analysis was done to document the packaging change. (see Device design safety assessment summary report rev 0)



Agnès SIFFERLEN
Quality System and compliance supervisor.

PREVENTIA		TVT-2	
Product:	Article No:		
TVT-2 needles, introducer	TVT-2		
Customer:			
Prepared:	Responsible:		
1998-09-22	ME / TS		
Revision No:	Revision date:		
7	2000-02-06		
Approved by:			
<i>[Signature]</i>			
Preventis AB, Dep Education / 0256-1			



TVT-2

Reg No: MED-91 Bag	Artid No: TVT-2	Product: TVT-2 needles, introducer
Note: Treatment of SUI	Drawing No: P15113, P15111, P15112	Dept: QA
Customer:	Responsible: ME / TS	Prepared: 1998-09-12
Revision No: 7	Revision date: 2000-02-06	Page: 1 of 1

Note

Analysis made 1998-09-22 by Margareta Eriksson and Tommy Svensson

(PREVENTIA AB).

System Description, see attached drawings.

Review of analysis 1999-01-27 by Margareta Eriksson and Tommy Svensson

(PREVENTIA AB).

The revised TVT-2 device:

5 mm needle

Shiny surface

Tip angle same as 6 mm

Transparent shrink tube

Packed in double plastic

Handle screw instead of o-ring

Utgåva 4 1999-06-01

Genomgång av ME / TS

Utgåva 5 1999-06-23

Ny värdering av risker TS / ME

Issue 6

Review of risk analysis based surveillance data and complaint statistics 1999.

Performed by ME and TS 2000-02-02.

Issue 7

Revision of text and Risknumbers after action taken (typing errors)

Preventia AB, Dep Education / D256-1

PREVENTIA

TVT-2

Reg No: MED-91 E23	Artid No: TVT-2	Product: TVT-2 needles, introducer
Note: Treatment of SUI	Drawing No: P15113, P15114, P15112	Dept: QA
Customer:	Responsible: ME / TS	Prepared: 1998-09-22
Revision No: 7	Revision date: 2008-02-06	Page: 1 of 1

Scales

$$RPN = Po * S * Pd$$

Po, Prob of occur.

- 1 Not likely, <1:100 000
- 2 Very low probability, <1:50 000
- 3 Very low probability, <1:10 000
- 4 Low probability, <1:5 000
- 5 Low probability, <1:1 000
- 6 Medium probability <1:500
- 7 Medium probability, <1:100
- 8 High probability, <1:50
- 9 High probability, <1:10
- 10 Very high probability, 1:1

S, Severity

- 1 No effect
- 2 Limited effect on function or appearance
- 3 Limited effect on function or appearance
- 4 Severe effect on function or appearance
- 5 Minor reversible injury, no function
- 6 Minor reversible injury, no function
- 7 Severe reversible injury, small irreversible injury
- 8 Minor irreversible injury
- 9 Severe irreversible injury
- 10 Death

Pd, Prob of detect.

- 1 Will always be discovered
- 2 Very high probability of detection
- 3 High probability
- 4 Normal probability
- 5 Minor probability
- 6 Minor probability
- 7 Low probability
- 8 Low probability
- 9 Will probably not be detected
- 10 Will not be detected

Preventia AB, Dep Education / 0256-1

PREVENTIA

TVT-2

Reg No: MED-91 Reg	Artid No: TVT-2	Product: TVT-2 needles, introducer
Note: Treatment of SUI	Drawing No: P15113, P15131, P15112	Dept: QA
Customer:	Responsible: ME/TS	Prepared: 1998-09-22
Revision No: 7	Revision date: 2000-02-06	Page: 1 of 6

Process step:	Failure mode	Cause	Effect	Control	Pe	S	Ed	RPN	Action/flow-up	Respon-	P-	S-	P-	RPN
(5) Preparing for the surgical procedure	Unsterile introducer	Sterilization (on site) has not been effective	Surgeons gloves unsterile -> risk for infection	Instruction from MMB concerning cleaning and sterilization	1	6	2	12*	Acceptable risk	x	1	6	2	12*
	Unsterile TVT-2 device (single use)	Sterilization process not effective	Infection	MMAB EN 46 001, sterilization validation performed	1	8	2	16*	Acceptable risk	x	1	8	2	16*
		Sterile package not effective	Infection	MMAB EN 46 001, sterile package validation performed	1	8	2	16*	Acceptable risk	x	1	8	2	16*
	Damaged TVT-2 device	Uncareful handling during manufacture / transport / preparation	Tissue damage or new treatment	No pre-caution in instruction manual concerning damage during preparation.	1	5	2	10*	Acceptable risk	x	1	5	2	10*
		Needle falls outside the instrument table, tape stretched, protective sheath overlay separated	Tissue damage or new treatment	Normal preparation technique in operating theater	1	5	2	10*	Acceptable risk	x	1	5	2	10*
		Protective caps falling off, needle tips damaged	Tissue damage or new treatment	The angle of the needle tip is same as 6 mm design. Protective caps.	1	5	2	10*	Acceptable risk	x	1	5	2	10*
	Wrong size of TVT device	Mislabelling of package / wrong shipment / wrong device prepared by nurse	The handle will not fit / treatment not possible	MMAB Quality system, 5 mm resp 6 mm needles have different article nos.	1	4	1	4	Acceptable risk	x	1	4	1	4

* = Risk of injury

Preventia AB, Dep Education / 0256-1

PREVENTIA

TVT-2

Reg No: MED-91 Eng	Article No: TVT-2	Product: TVT-2 needle, introducer
Notes: Treatment of SUI	Drawing No: P15113, P15111, P15112	Dept: QA
Customer:	Responsible: ME / TB	Prepared: 1998-02-22
Revision No: 7	Revision date: 2008-02-06	Page: 2 of 6

Failure Mode	Failure mode	Cause	Effect	Control	P1	P2	P3	P4	RPN	Acceptable risk	-	RPN	P1	P2	P3	P4	RPN
(2) Attaching Introducer to the needle	Introducer loos from TVT-2 device	Screw not assembled correct in handle	Screw drops on the floor -> unsterile. New introducer must be prepared, delayed procedure.	Instr. for use describes procedure for introducer assembly after cleaning and sterilization	1	5	1	1	5*	Acceptable risk	x	5*	1	5	1	1	5*
		6 mm Introducer attached to 5 mm TVT-2 device needle	New introducer must be prepared, delayed procedure	Not possible	1	1	1	1	1	Acceptable risk	x	1	1	1	1	1	1
		Screw threading on handle worn out	Screw drops on the floor -> unsterile. New introducer must be prepared, delayed procedure	Assembly procedure in instructions for use. Screw thread length increased.	1	5	1	1	5*	Acceptable risk	x	5*	1	5	1	1	5*
		Screw not enough fixed	Unstable needle tip position, unintentional tissue damage (incl. Uretra).		1	8	1	1	8*	Acceptable risk.	x	8*	1	8	1	1	8*
Needle / Introducer attachment unstable	?	The screw slightly reversed (unwound) by the surgeons hand during procedure	Unstable needle tip position, unintentional tissue damage (incl. Uretra).		1	5	1	1	8*	Acceptable risk	x	8*	1	5	1	1	8*
		Wrong assembly procedure by nurse / surgeon	Sheath separates. Damage to tissue due to damaged tape. New procedure required.	1999-06-01: 20800 operations performed to date, no reports concerning this failure mode.	2	5	2	2	20*	Acceptable risk.	x	20*	2	5	2	2	20*

* = Risk of injury

Preventia AB, Dep Education / 0256-1

PREVENTIA

TVT-2

Reg No: MED-91 Eng	Artid No: TVT-2	Product: TVT-2 needles, introducer
Note: Treatment of SUI	Drawing No: P15113, P15111, P15112	Dept: QA
Customer:	Responsible: ME / TS	Prepared: 1998-09-22
Revision No: 7	Revision date: 2000-02-06	Page: 3 of 6

Process step	Failure mode	Cause	Effect	Control	Po	Se	Pd	RPN	Action/Initiative	Residual	Po	Se	Pd	RPN
(3) Penetration of tissue / surface of abdomen	Needle does not fit to introducer	Dimensions of Needle resp. Introducer wrong.	Needle not possible to fit to introducer, Introducer sticks to Needle. New procedure	Manufacturing of Needle validated	1	4	1	4	Acceptable risk.		1	4	1	4
	Penetration of bladder	Anatomy is such that it may happen	Patient catheter 1 / 3 days.	Cystoscope in bladder during procedure. Instruction available in surgical procedure	8	5	2	80*	Acceptable risk. See literature review.		8	5	2	80*
	Penetration of Urethral wall	Damage by needle tip during insertion	Urethral wall damaged, leakage, scar on Urethra	Instructions to use catheter guide.	3	8	6	144*	Acceptable risk.		3	8	6	144*
	Bleeding from pelvic floor / space of Reclus	Anatomy is such that it may happen	Bleeding in the tissue	Instructions for use, surgical procedure. Surgeon must be familiar with SUI procedure	7	7	2	98*	Acceptable risk		7	7	2	98*
	Lateral vascular injury	Wrong surgical technique.	Bleeding in the tissue	Instructions for use, surgical procedure.	1	7	2	14*	Acceptable risk.		1	7	2	14*
Damage to nerves, local anesthesia			Bleeding in the tissue	Instructions for use, surgical procedure. Surgeon must be familiar with SUI procedure	3	9	2	54*	Acceptable risk. Change instructions for use to include needle position in pelvic length direction		3	9	2	54*
			Bleeding in the tissue	Instructions for use, surgical procedure.	1	9	2	18*	Postmarket surveillance.	ME	1	9	2	18*
		Anatomy is such that it may happen	Damage to nerve functions, pain	Instructions for use, surgical procedure	2	8	2	32*	Acceptable risk		2	8	2	32*

* = Risk of injury

Preventia AB, Dep Education / 0256-1

PREVENTIA

TVT-2

Reg No: MED-91 Eng	Artid No: TVT-2	Product: TVT-2 needles, introducer
Notes: Treatment of SUN	Drawing No: P15113, P15111, P15112	Dept: QA
Customer:	Responsible: ME / TS	Prepared: 0908-09-22
Revision No: 7	Revision date: 2009-02-06	Page: 4 of 6

Process step:	Failure mode	Cause	Effect	Control	Po	S	Ed	RPN	Action/flow-up	Remed-	Po	S	Ed	RPN
	Damage to nerves, spinal epidural general anesthesia	Anatomy is such that it may happen	Damage to nerve functions, postoperative pain	No pain, more difficult	2	8	6	96*	Acceptable risk	x	2	8	6	96*
	Bowel perforation / obstruction	Wrong surgical procedure, anatomy is such that it may happen	Pain, peritonitis		2	9	4	72*	Acceptable risk.	x	2	9	4	72*
	Needle kinking resistance too low	Diameter of needle 5 mm instead of 6 mm	Uncontrolled Needle tip position, unintentional tissue damage (incl. Uretra).	Specification of tensile strength and torsion strength available in supplier certificate.	1	8	2	16*	Acceptable risk.	x	1	8	2	16*
	Radius of Needle wrong	Wrong manufacturing	Uncontrolled Needle tip position. Unintentional tissue damage incl. Uretra		1	8	4	32*	Acceptable risk	x	1	8	4	32*
	Needle broken during procedure	Insufficient mechanical strength of Needle	Reats of the needle removed (surgical intervention).		6	5	1	30*	New needle design / material (2333) <0009-03-01	ME	6	5	1	30*
	Protective sheath overlap separated	Wrong assembly	Damage to the prolene mesh, damage to tissue, new procedure	MMAB Quality system	2	5	2	20*	Acceptable risk	x	2	5	2	20*
		Accidental separation of overlap during surgical procedure	Damage to the prolene mesh, repeat the procedure	Surgeons attention	2	5	2	20*	Acceptable risk	x	2	5	2	20*
	Needle resistance to tissue lower compared to 6 mm TVT sandblasted Needle	Smaller diameter compared to 6 mm	Less control of pos. of Needle tip during surgical procedure.		2	8	2	32*	Acceptable risk	x	2	8	2	32*

* - Risk of injury

Preventia AB, Dep Education / 0256-1

PREVENTIA

TVT-2

Reg No: MED-91 Eng	Artid No: TVT-2	Product: TVT-2 needles, Introducer
Note: Treatment of SUI	Drawing No: P15113, P15111, P15112	Dept: QA
Customer:	Responsible: ME / TS	Prepared: 1998-09-22
Revision No: 7	Revision date: 2000-02-06	Page: 5 of 6

Process step	Failure mode	Cause	Effect	Control	Po	S	Pd	RPN	Action/follow-up	Responsible	P-	S-	P-	RPN
	Tape and protective sheath separates from Needle	Force of MT 5000 clear attachment (airlock tube) less compared to TVT generation I	New treatment, protective sheath remains in tissue, removed surgically		1	5	1	10*	Acceptable risk.	x	1	5	2	10*
	Toxicological reaction	Toxic material in clear attachment (airlock tube) Altera MT-5000 (clear)	Shock, sensitization	Toxicological testing results of Duycchem material available Altera MT-5000 (clear)	1	8	2	16*	Acceptable risk	x	1	8	2	16*
		Toxic material in protective sheath	Shock, sensitization	Toxicological data available	1	8	2	16*	Acceptable risk	x	1	8	2	16*
		Toxic material in Pralene tape	Shock, sensitization	Toxicological test results available	1	8	2	16*	Acceptable risk	x	1	8	2	16*
(4) Removal and re-introduction of needle (in case of bladder penetration)	No risks identified.													
(5) Release of introducer from Needle	Needle does not separate from Introducer	Dimensions of Needle resp. Introducer wrong.	Excess force required to remove Needle. New procedure.	Validation of manufacturing of Needles.	2	4	2	16*	Acceptable risk.	x	2	4	2	16*
(6) Biting the needle above the abdominal wall	Protective sheath loosens from mesh and/or mesh loosens before it is cut	Insufficient tensile strength below the protective sheath	Remove the protective sheath through surgical procedure. Repeat the procedure.		2	6	2	24*	Acceptable risk.	x	2	6	2	24*
(7) Repeat on the other side	No specific risks identified													
(8) Cutting tapes and remove needles	Tape and protective sheath slips below abdominal wall surface	Tape too short / women too obese	Try to locate tape end, new procedure, alternative treatment	Instructions for use clear.	2	4	2	16	Acceptable risk	x	2	4	2	16

* = Risk of injury

Preventia AB, Dep Education / 0256-1

PREVENTIA

TVT-2

Reg No: MED-91 Bag		Article No: TVT-2		Product: TVT-2 sections, introducer										
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Customer:		Responsible: ME / TS		Prepared: 1998-09-22										
Revision No: 7		Revision date: 2000-02-06		Page: 6 of 6										
Process step	Failure mode	Cause	Effect	Control	Po	Se	Ed	RPN	Action/Response	Response	Po	Se	Ed	RPN
(9) Tension adjustment and caught-test	Too hard tension	Wrong judgement by surgeon	Urine retention, resident urine, repeat the procedure, loosen the mesh	Instructions for use clear.	2	5	2	20*	Acceptable risk.	x	2	5	2	20*
	Too loose tension	Wrong judgement by surgeon	No treatment effect (leakage). New procedure.	Instructions clear.	2	5	2	20*	Acceptable risk	x	2	5	2	20*
(10) Removal of the protective sheath	Difficult to remove	Friction in overlap	Remove the protective sheath by other means, delay of procedure		3	5	1	15*	Acceptable risk	x	3	5	1	15*
	Particles from Prolene mesh falls off into the tissue	Tape edges damaged	No effect. Implantable material.		2	1	10	20	Acceptable risk.	x	2	1	10	20
(11) Cutting of the tape under the skin, suturing the incisions	No risks identified													
(12) End of procedure	No risks identified													

* -- Risk of injury

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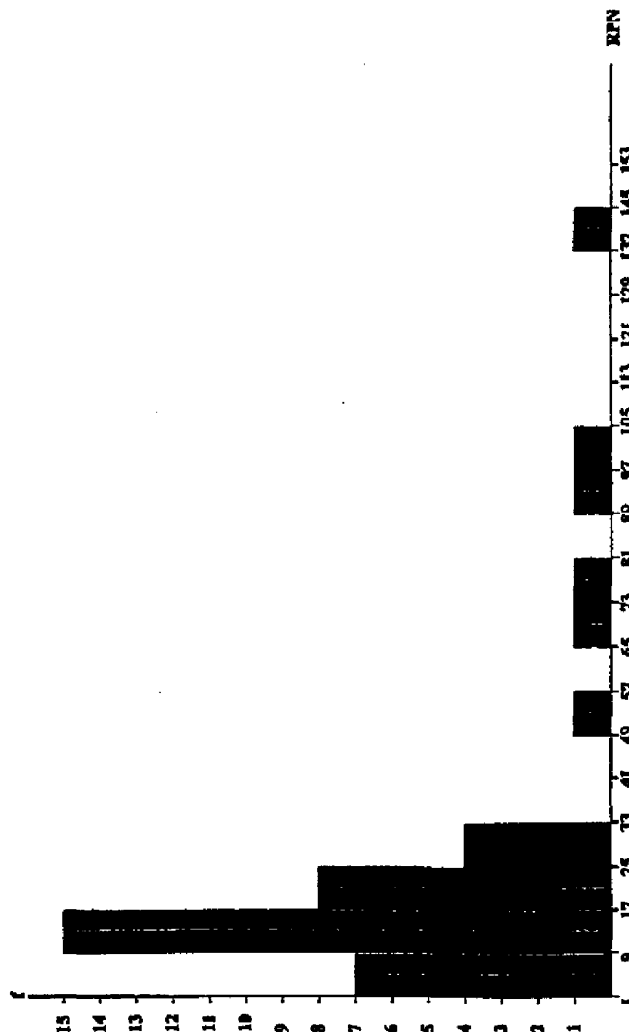
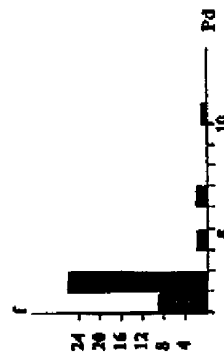
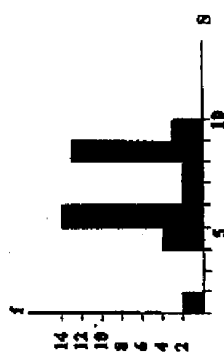
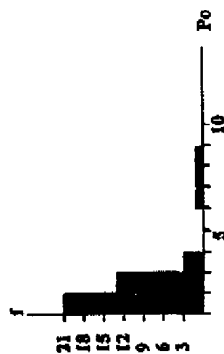
PREVENTIA

TVT-2

Reg No: MED-91 Eng	Article No: TVT-2	Product: TVT-2 needles, introducer
Nett: Treatment of RU	Drawing No: P15113, P15111, P15112	Dept: QA
Customer:	Responsible: ME / TS	Prepared: 1998-09-22
Revision No: 7	Revision date: 2009-02-06	Page: 1 of 1

Risk profile

■ RPN-before action
■ RPN-after action



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